



ACCEPTED  
 31910-11

BEST DOCUMENT AVAILABLE

**PRECAUTIONARY STATEMENTS**

**WARNING**

*Hazardous to Humans and Domestic Animals*

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not apply in manure and/or estuaries or fields. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge treated effluent into lakes, streams, ponds or public waters unless in accordance with a NPDES permit. For guidance contact your Regional Office of the EPA.

AQUATREAT DNM-9 is a highly effective fungicide and bactericide for use in controlling the growth of bacteria and fungi found in industrial recirculating water cooling towers, air washers, evaporative condensers, pulp and paper mills, cane and beet sugar mills, and drilling fluids.

**DIRECTIONS FOR USE**

**GENERAL CLASSIFICATION**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

**STORAGE AND DISPOSAL**

- PROHIBITIONS**  
Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.
- PESTICIDE DISPOSAL**  
Pesticide, spray mixture, or residue that cannot be used or chemically processed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.
- CONTAINER DISPOSAL**  
(a) Reseal container and offer for reconditioning, or (b) Triple rinse (or equivalent) and offer for recycling, reconditioning, or disposal in approved landfill, or bury in a safe place.
- GENERAL**  
Consult Federal, State or Local Disposal Authorities for approved alternative procedures.

**INDUSTRIAL RECIRCULATING WATER COOLING TOWERS AND EVAPORATIVE CONDENSERS**

Dosages for industrial recirculating water cooling towers or evaporative condensers will depend on the condition of the system prior to treatment initiation. Systems which are heavily contaminated should be cleaned first. Apply AQUATREAT DNM-9 to the cleaned system or when growth is first noticed, according to the following schedule.

**Initial Dose:** Apply 43.53 ounces of product per each 1000 gallons of water in the system (400 ppm). This dose may be repeated once, twice or three times weekly or as required to control the growth of slime-forming organisms.

**Subsequent Dose:** When microbial control is evident add 7.27 to 14.53 fluid ounces of AQUATREAT DNM-9 per 1000 gallons of water (66.7-133.3 ppm) in the system every three days or as needed.

**AIR WASHERS**

In treating air washer systems pre-clean by introducing a suitable detergent solution into the system and allow air washer to run with fan off for two hours. Flush. Check all nozzles and manually clean those that are plugged. Add product as specified under dosages for Cooling Towers.

**Feeding**

AQUATREAT DNM-9 may be fed directly from the drum or diluted with water and fed by any suitable feed system. AQUATREAT DNM-9 should be dosed directly into the sump or basin or any other location where good distribution can be assured.

**PAPER MILLS**

Dosage will vary from 0.33 to 6.67 pounds (0.13 to 2.70 quarts) of AQUATREAT DNM-9 per ton of finished paper depending on the type of stock, complexity of the system, quality of raw water, and type and degree of contamination.

**Feeding**

AQUATREAT DNM-9 may be drip fed continuously from the sump or fed by suitable chemical pumps such as adjustable proportioning types, variable speed positive displacement types, or by the reciprocating type. This product should be fed as early as possible in the system at such points including the hydro-pulper, machine chest or broke system.

AQUATREAT DNM-9 can be used to control slime on machines which can make paper and paperboard for use in food packaging. AQUATREAT DNM-9 complies with Title 21 Code of Federal Regulations section 176.300 of the Food Additive Regulations and may be used under conditions specified in the regulations.

**AQUATREAT DNM-9**

- ACTIVE INGREDIENTS ..... 9%
- Sodium Dimethyldithiocarbamate ..... 4.5%
  - Nabam (Disodium Ethylene Bisdithiocarbamate) ..... 4.5%
- INERT INGREDIENTS ..... 91%
- TOTAL ..... 100%

**KEEP OUT OF REACH OF CHILDREN WARNING**

Causes eye and skin irritation. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed. Avoid contamination of food.

**STATEMENT OF PRACTICAL TREATMENT**

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Call a physician immediately.

See Side Panel For Additional Precautionary Statements.



Manufactured by  
**ALCO Chemical Corporation**  
 909 Mueller Drive  
 Chattanooga, Tenn 37406  
 Phone: 615-629-1405

EPA Establishment No. 31910-1N-1

EPA Registration No. 31910-11

Net Contents: Liquid

See Markings on Top of Drum for Net Weight

**DRILLING FLUIDS**

AQUATREAT DNM-9 is a highly effective microbicide for use in controlling the growth of fungi and bacteria found in water based drilling muds. It is especially useful in muds containing starches, Xanthanate gums, and wood sugars. The uncontrolled growth of these fungi and bacteria can cause increased corrosion, undesirable odors, and degradation of the drilling mud, especially fluid loss properties.

AQUATREAT DNM-9 is used at the rate 3.7 to 18.8 gallons per 100 bbl of mud (0.067% to 0.33%). It can be used directly from the shipping container or pre-diluted with water. It can be put in through the mud hopper or added to the pump suction.

**CANE SUGAR MILLS**

AQUATREAT DNM-9 is a liquid which should be fed directly into the cane juice so that the treated juice circulates to all parts of the mill tandem. The point or points of addition will depend on mill design. Frequently the dosage will be split between the crusher juice and juice from the last mill. The best addition point is to the juice which is circulated back to the crusher from the first mill. Do not add this product to the maceration water.

AQUATREAT DNM-9 should be fed continuously at the rate of 33.3-66.7 parts of product per million parts of cane ground per day. 33.3 ppm of product is the standard dosage. This may be raised up to a maximum of 66.7 ppm, if necessary. Conditions warranting, some increase would be warranted when grinding cane damaged through freezing, poor weather or delays between cutting and grinding. See feeding directions which follow.

Proper feed of AQUATREAT DNM-9 is best obtained through the use of a chemical feed pump such as the adjustable proportioning type; the variable speed, positive displacement type, or the reciprocating type. The required dosage will depend on the average daily rate of cane ground. Refer to composite table 1 for the proper dosage in milliliters and ounces of AQUATREAT DNM-9 to be used per minute.

Do not exceed feed rate of 15 gallons (130.7 pounds) of product per 1000 short tons of cane ground per twenty-four hours.

The use of AQUATREAT DNM-9 does not replace good house-keeping. This should include regular cleaning at least once per shift. Regular hosing of mills bagacillo conveyors, and screens with hot water and steam is essential for maintaining efficient control of microbiological slime and sucrose losses.

**BET SUGAR MILLS**

AQUATREAT DNM-9 should be fed directly into the raw juice during sugar extraction of beets to keep equipment free of bacterial slime deposits. It is to be used at the rate of 33.3-66.7 ppm of raw beets sliced, and fed continuously into the pulp press water tank with a metering pump. The maximum rate to be fed is 66.7 ppm. Refer to composite table 1 for the proper dosage in milliliters and ounces of AQUATREAT DNM-9 to be used per minute.

**COMPOSITE TABLE 1**

SHORT TONS OF CANE GROUND OR RAW BEETS SLICED PER DAY	RATE OF FEED OF AQUATREAT DNM-9					
	33.3ppm	66.7ppm	ml/min	oz/min	ml/min	oz/min
1,000	183	0.620	36.7	1.240	73.3	2.480
2,000	367	1.240	73.3	2.480	146.7	4.950
3,000	550	1.860	109.9	3.710	210.0	6.670
4,000	733	2.480	146.7	4.950	283.3	9.100
5,000	917	3.100	183.3	6.190	356.7	11.390
6,000	1,100	3.710	220.0	7.430	433.3	13.530
7,000	1,283	4.330	256.7	8.670	500.0	15.620
8,000	1,467	4.950	293.3	9.910	566.7	17.710
9,000	1,650	5.570	330.0	11.150	633.3	19.800
10,000	1,833	6.190	366.7	12.390	700.0	21.890

This product complies with Title 21 Code of Federal Regulations Section 173.320 (Chemicals used for the Control of Microorganisms in Cane and Beet Sugar Mills) of the Food Additive Regulations and may be used under conditions specified in the regulations.

**SECONDARY AND TERTIARY PETROLEUM RECOVERY**

AQUATREAT DNM-9 is a highly effective microbicide for use in controlling the growth of fungi and bacteria found in secondary and tertiary petroleum recovery waterflood systems.

AQUATREAT DNM-9 can be injected directly into the shipping container. It should be thoroughly mixed into the produced water, fresh or salt water or contaminated water of the secondary or tertiary oil recovery waterflood systems for effective microorganism control. It may also be diluted with water for injection.

AQUATREAT DNM-9 is used at the rate of 3.3 parts per 100 lbs of water for growth inhibition of *Bacillus cereus* and *Bacillus subtilis* at 3.3 parts per 100 lbs of water for *Pseudomonas fluorescens*. It is also effective against many fungi such as *Aspergillus*, *Penicillium* and *Trichoderma* at the 3.3 part per 100 lbs of water.

Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

Alco Chemical Co.  
909 Mueller Drive  
Chattanooga, TN 37406

04 NOV 1982

Attention: Mr. Gregory T. McGrew

Gentlemen:

Subject: Aquatreat DNM-9  
EPA Registration No. 31910-11  
Applications Dated July 20 and September 1, 1982

The alternate formulation using Isopropanol is not acceptable because it would require a label change to reflect the different flash point.

The alternate formulation using Ethylene glycol is acceptable.

At the next printing of your label:

- a. Declare the percentages in the ingredient statement to the same decimal place.
- b. In the second paragraph of the "Secondary and Tertiary Petroleum Recovery" section, correct the second sentence to "It should be ... or *concentrated* water of the secondary or tertiary...."

The amendment (to add the secondary and tertiary Petroleum Recovery Use Pattern), submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

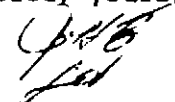
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If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

  
John H. Lee  
Product Manager (31)  
Disinfectants Branch  
Registration Division (TS-767C)

Enclosure

DIS:LEE:DCR-23930:WANG-0866C:pjb:Raven:479-2013:10/27/82